

The Metropolitan Water District of Southern California

GENERAL MINERAL AND PHYSICAL ANALYSIS OF METROPOLITAN'S WATER SUPPLIES

TABLE D

August 2013

CONSTITUENTS	UNITS	SOURCE WATERS								TREATMENT PLANT EFFLUENTS				
		LAKE HAVASU	SAN JACINTO TUNNEL	LAKE MATHEWS	CASTAIC LAKE	SILVER- WOOD LAKE	LAKE PERRIS	DIAMOND VALLEY LAKE	LAKE SKINNER	WEY- MOUTH	DIEMER	JENSEN	SKINNER	MILLS
SILICA	mg/L	8.1	8.6	7.9	13.5	13.6	9.6	9.2	8.8	8.4	8.2	13.2	8.3	12.5
CALCIUM	mg/L	72	70	66	25	23	26	30	60	59	63	25	60	21
MAGNESIUM	mg/L	25	25	25	13	11	13	13	23	22	24	12	22	11
SODIUM	mg/L	79	81	84	57	53	59	54	77	85	86	61	84	59
POTASSIUM	mg/L	4.2	4.2	4.3	2.7	2.6	3.0	3.2	4.0	4.2	4.2	2.7	4.0	2.5
CARBONATE	mg/L	0	0	4	0	10	0	0	2	0	0	0	0	0
BICARBONATE	mg/L	163	161	142	102	84	110	112	144	126	133	107	143	81
SULFATE	mg/L	214	209	212	46	42	46	63	179	204	212	49	188	60
CHLORIDE	mg/L	77	77	79	75	66	79	71	77	83	84	77	85	71
NITRATE	mg/L	1.2	0.9	0.4	2.9	0.2	0.1	<0.1	0.2	0.4	0.5	2.9	0.3	1.3
FLUORIDE	mg/L	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.3	0.8	0.9	0.8	0.8	0.9
TOTAL DISSOLVED SOLIDS (TDS)	mg/L	562	556	554	286	264	291	300	503	530	549	297	524	280
TOTAL HARDNESS AS CaCO <sub>3</sub>	mg/L	279	276	267	118	106	118	133	244	248	260	114	246	100
TOTAL ALKALINITY AS CaCO <sub>3</sub>	mg/L	134	132	122	84	85	90	92	122	103	109	88	117	66
FREE CARBON DIOXIDE	mg/L	1.8	1.2	0.8	3.5	0.2	1.5	1.0	0.8	1.9	1.8	0.9	0.9	0.8
pH	pH	8.18	8.35	8.48	7.69	8.99	8.08	8.27	8.47	8.05	8.08	8.30	8.41	8.23
SPECIFIC CONDUCTANCE	µS/cm	926	902	890	530	474	534	550	827	896	920	549	876	512
COLOR	CU	--	--	--	--	--	--	--	--	--	--	--	--	--
TURBIDITY	NTU	1.0	0.50	0.93	0.39	2.1	1.4	0.72	0.76	0.05	0.04	0.04	0.06	0.08
TEMPERATURE	°C	25	28	26	17	23	25	18	26	26	28	24	29	25
BROMIDE	mg/L	0.06	0.04	0.05	0.24	0.20	0.26	0.21	0.08	--	--	--	--	--
TOTAL ORGANIC CARBON	mg/L	3.44	3.07	2.97	2.32	3.55	3.60	2.73	2.92	--	--	--	--	--
SATURATION INDEX	--	--	--	--	--	--	--	--	--	0.47	0.56	0.31	0.92	0.07
STATE PROJECT WATER	%	0	0	0	100	100	100	91	17	18	19	100	18	100